Add the following new claim:

--13. (new) A radiating cable comprising a pair of insulated conductor wires (2), the cable comprising at least one cable segment (1) having first ends (3) connected to a load (4) equal to an impedance characteristic of the cable segment, and second ends (5) connected to a connector,

wherein the two wires of the pair differ from each other in at least one parameter comprising: conductor diameter, conductor nature or structure, and the thickness or the nature of the insulation surrounding the conductors.--

REMARKS

The application has been amended so as to place it in condition for allowance at the time of the next Official Action.

Claims 1-13 are pending, claims 1 and 13 being independent.

The Official Action objected to the Abstract of the Disclosure. Responsively, a replacement Abstract of the Disclosure is attached. The abstract has been amended so as to remedy the stated basis of objection.

The Official Action rejected claims 4 and 11 under §112, second paragraph, as being indefinite.

Responsively, claims 4 and 11 have been amended so as to remedy the stated basis of rejection. Accordingly, withdrawal of the indefiniteness rejection is solicited.

See that in the specification the phrase "impedance characteristic" has been amended to "characteristic impedance" which is a more appropriate translation of the French phrase "impedance caracteristique".

The Official Action rejected claims 1-6 and 9-11 under §103 as obvious over FROMTON 5,663,660 in view of SMITH 4,339,733; and rejected claims 7-8 over these two references in further view of PAQUIN 4,413,469.

The Official Action indicated that claim 12 was directed to allowable subject matter.

New claim 13 is based on the combination of original claims 1 and 12. Allowance of claim 13 is solicited.

Independent claim 1 has been amended to recite a radiating cable comprising a pair of insulated conductor wires, the cable comprising at least one cable segment in which said conductor wires have first free ends connected together through a load equal to a characteristic impedance of the cable segment, and second ends opposite the free ends, connected to a connector. Thus, as now positively recited in claim 1, the load equal to a characteristic impedance of the cable is connected between the wires at the free end thereof. This means that the actual impedance of the cable is independent of its length. Accordingly, there is no need to adapt the impedance of the equipment to which the radiating cable is connected.

The applied references do not either individually or in combination teach or suggest the invention as presently recited. FROMION discloses a device for matching a line interface with equipment. First note that the line disclosed is not a radiating cable but a cable connected at both ends to equipment. In addition, this reference positively discloses that a resistor having a value of half the characteristic impedance of the cable is connected at each end of each wire between the end of the wire and the corresponding part of the matching device. See the reference at column 3, lines 4-7 and 13-17.

As acknowledged by both the present Official Action and the Examiner in charge of the International Preliminary Examination, FROMION does not anticipate the present invention.

On the other hand, SMITH discloses a radiating cable but does not contain any motivation to change the structure of the SMITH radiating cable for obtaining the cable of the present invention. Accordingly, neither SMITH nor FROMION anticipates the present invention. Further, there is no motivation to combine these two references in any way which would result in the presently recited invention. Still further, if these two references were combined, their combination would not result in the cable as recited in amended claim 1.

In view of the above, the obviousness rejection is not believed to be viable. Reconsideration and withdrawal of the

obviousness rejection and allowance of claims 1-12 are respectfully requested.

Attached hereto is a marked-up version showing the changes made to the abstract, specification and claims. The attached page is captioned "VERSION WITH MARKINGS TO SHOW CHANGES MADE."

Respectfully submitted,

YOUNG & THOMPSON

By _____

Roland E. Long, Jr.
Attorney for Applicant
Registration No. 41,949
745 South 23rd Street
Arlington, VA 22202
Telephone: 703/521-2297

January 2, 2003

"VERSION WITH MARKINGS TO SHOW CHANGES MADE"

ABSTRACT OF THE DISCLOSURE

The Abstract of the Disclosure has been amended as follows:

The radiating cable [comprises] includes at least one cable segment [(1) comprising] having a pair of insulated conductor wires [(2) having] with first ends [(3)] connected to a load [(4)] equal to an impedance characteristic of the insulated conductor wires, and second ends [(5)] connected to a connector [(6)].

IN THE SPECIFICATION:

Page 1, the paragraph beginning on line 23, has been amended as follows:

--The present invention provides a radiating cable comprising a pair of insulated conductor wires, at least one cable segment having first ends connected to a load equal to [an impedance characteristic] a characteristic impedance of the cable segment, and second ends connected to a connector. This provides a cable of very great flexibility and compactness which can easily be fixed in the passages of a building by means of the usual techniques for fixing an ordinary telephone cable and which also presents impedance that is independent of length.--.

IN THE CLAIMS:

Claim 1 has been amended as follows:

--1. (twice amended) A radiating cable comprising a pair of insulated conductor wires (2), the cable comprising at least one cable segment (1) [having] in which said conductor wires have first free ends (3) connected [to] together through a load (4) equal to [an impedance characteristic] a characteristic impedance of the cable segment, and second ends (5) opposite said free ends connected to a connector.--

Claim 4 has been amended as follows:

--4. (twice amended) A radiating cable according to claim 1, wherein the [pairs] pair of insulated conductor wires (2) [are] is placed in a supporting sheath (9).--

Claim 11 has been amended as follows:

--11. (twice amended) A radiating cable according to claim 9 wherein, [including]

the pairs of insulated conductor wires (2) are placed in a supporting sheath (9),

metal tapes are wound helically without overlap around the [pairs] pair of insulated conductor wires, and

[wherein] the metal tapes (10) extend between the dielectric tape (7) and the [outer] supporting sheath (9).--